

AMENDMENT AFTER FINAL
Serial No. 09/343,758

YOR9-1999-0183

AMENDMENTS TO THE CLAIMS

The below listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- Sub D
- 1 ~~1. (currently amended) A method of transferring data across a computer network, said~~
2 ~~computer network including a plurality of computers, a database stored on one of said~~
3 ~~plurality of computers, said method comprising the steps of:~~
4 ~~setting data transfer constraints;~~
5 ~~requesting transfer of data stored on a remote computer system;~~
6 ~~identifying at least one object included in said requested data as being associated~~
7 ~~with a generic object; and~~
8 ~~substituting [[the]] a corresponding said generic object for each [[of]] said~~
9 ~~associated at least one object, said substituted corresponding generic objects being~~
10 ~~transferred with said data before associated objects responsive to said data transfer~~
11 ~~constraints.~~
- CL
- 1 2. (original) A method as in claim 1 wherein said stored data includes image and sound
2 data.
- 1 3. (currently amended) A method as in claim 2, wherein image data is requested by a user
2 for display on a web browser, each substituted said generic object being substituted in a
3 compressed web browser image, said method further comprising:
4 displaying said compressed web browser image.
- 1 4. (original) A method as in claim 3, wherein the remote computer system identifies
2 generic objects.

AMENDMENT AFTER FINAL
Serial No. 09/343,758

YOR9-1999-0183

1 5. (currently amended) A method as in claim 4, wherein while the compressed web
2 browser image is being displayed, the remote computer system is transferring generic
3 object codes associated with related images.

6. (Canceled)

1 7. (currently amended) A method as in claim 24 wherein a requested object is transferred
2 while a corresponding generic object is being displayed and further comprising:
3 replacing and displaying each said corresponding generic object with each said
4 requested object when said requested object is received.

1 8. (original) A method as in claim 7, wherein the data transfer constraints include a peak
2 net traffic constraint, a client quick mode constraint, a server quick mode constraint and an
3 importance level.

1 9. (original) A method as in claim 8, wherein when said importance level is high, data is
2 transferred from said database and the web browser image is displayed normally.

1 10. (original) A method as in claim 8, wherein when peak net traffic is below said peak net
2 traffic constraint, data is transferred from said database and the web browser image is
3 displayed normally.

1 11. (original) A method as in claim 8, wherein when said client quick mode constraint is
2 not selected, data is transferred from said database and the web browser image is displayed
3 normally.

AMENDMENT AFTER FINAL
Serial No. 09/343,758

YOR9-1999-0183

1 12. (original) A method as in claim 8, wherein when said server quick mode constraint is
2 not selected, data is transferred from said database and the web browser image is displayed
3 normally.

1 13. (original) A method as in claim 5, wherein while the web browser image is being
2 displayed, the remote computer system is further transferring additional generic objects
3 associated with said related images.

1 14. (original) An interface device for connecting to and retrieving data from a remote
2 computer system, said interface device comprising:
3 means for setting data transfer constraints;
4 means for requesting data from a remote computer system;
5 means for storing a plurality of generic objects, each stored generic object
6 corresponding to an original object in data requested from said remote computer system;
7 means for substituting each stored said generic objects for said corresponding
8 object; and
9 means for outputting said requested data, said output data selectively including said
10 generic objects or corresponding original objects responsive to said data transfer
11 constraints.

1 15. (original) The interface device as in claim 14, wherein the outputting means is a video
2 display.

1 16. (original) The interface device as in claim 14, wherein the interface device is a speaker.

1 17. (currently amended) A method of compressing digital images, comprising the steps of:
2 a) identifying objects in a digital image;
3 b) identifying names of identified objects;

AMENDMENT AFTER FINAL
Serial No. 09/343,758

YOR9-1999-0183

- 4 c) identifying a position of identified objects;
- 5 d) identifying a position relative to one of said identified objects in the digital
- 6 image;
- 7 e) identifying characteristics of the identified objects;
- 8 f) substituting for identified objects in said digital image ~~[[for]]~~ generic
- 9 object[[s]] names, position data and characteristics to form a modified digital image; and,
- 10 g) sending the modified digital image to a client system for display.

1 / 18. (currently amended) A method of restoring a compressed image comprising the steps
2 of:

- 3 a) identifying generic objects in received image data;
- 4 b) identifying corresponding objects in subsequently received data;
- 5 c) substituting said corresponding objects for said identified generic objects in
- 6 said received image data ~~for said corresponding objects~~ to form an uncompressed image;
- 7 and
- 8 d) displaying said uncompressed image.

1 / 19. (currently amended) A computer program product for transferring data across a
2 computer network including a plurality of computers, a database stored on one of said
3 plurality of computers, said computer program product comprising a computer usable
4 medium having computer readable program code thereon, said computer readable program
5 code comprising:

- 6 computer readable program code means for setting data transfer constraints;
- 7 computer readable program code means for requesting transfer of data stored on a
- 8 remote computer system;
- 9 computer readable program code means for identifying at least one object included
- 10 in said requested data as being associated with a generic object; and

AMENDMENT AFTER FINAL
Serial No. 09/343,758

YOR9-1999-0183

11 computer readable program code means for substituting [[the]] a corresponding
12 generic object for each [[of]] said at least one object responsive to said data transfer
13 constraints.

1 20. (original) A computer program product as in claim 19, wherein image data is requested
2 by a user for display on a web browser, said generic object being substituted in a web
3 browser image, said computer program product further comprising:
4 computer readable program code including a database with a plurality of generic
5 objects.

1 21. (original) A computer program product as in claim 20, further comprising:
2 computer readable program code for transferring additional generic objects
3 associated with related images while the web browser image is being displayed.

22. (Canceled)

1 23. (currently amended) A computer program product as in claim 20, further comprising:
2 computer readable program code for transferring a requested object while [[a]] said
3 corresponding generic object is being displayed and when said requested object is received
4 replacing and displaying each said corresponding generic object with each said requested
5 object and displaying said each requested object.

1 24. (currently amended) A method of transferring data across a computer network, said
2 computer network including a plurality of computers, a database stored on one of said
3 plurality of computers, said method comprising the steps of:
4 setting data transfer constraints;
5 requesting transfer of data, including image and sound data, stored on a remote
6 computer system;
7 identifying at least one object included in said requested data as being associated
8 with a generic object;

AMENDMENT AFTER FINAL
Serial No. 09/343,758

YOR9-1999-0183

9 substituting ~~[[the]]~~ a corresponding said generic object for each ~~[[of]]~~ said at least
10 one object in a web browser image responsive to said data transfer constraints;
11 transferring generic object codes associated with related images from said remote
12 computer system; and,
13 displaying said web browser image while transferring, wherein when related images
14 are displayed, generic objects associated with said transferred generic object codes are
15 substituted in said displayed related images.

1 ✓ 25. (currently amended) A computer program product for transferring data across a
2 computer network including a plurality of computers, a database stored on one of said
3 plurality of computers, said computer program product comprising a computer usable
4 medium having computer readable program code thereon, said computer readable program
5 code comprising:
6 computer readable program code means for setting data transfer constraints;
7 computer readable program code means for requesting transfer of data stored on a
8 remote computer system;
9 computer readable program code means for identifying at least one object included
10 in said requested data as being associated with a generic object;
11 computer readable program code means for substituting ~~[[the]]~~ generic objects in a
12 web browser image for each of said at least one object responsive to said data transfer
13 constraints;
14 computer readable program code for transferring additional generic objects
15 associated with related images while the web browser image is being displayed; and
16 computer readable program code for substituting said additional objects for said
17 related object when a related image is displayed.

1 26. (new) A method as in claim 1 wherein each said at least one object is a species object
2 of its associated said generic object.

AMENDMENT AFTER FINAL
Serial No. 09/343,758

YOR9-1999-0183

1 27. (new) A method as in claim 24 wherein each said at least one object is a species object
2 of its associated said generic object.

1 28. (new) A interface device as in claim 14, wherein each said corresponding original
2 object is a species object of a corresponding said stored generic object.

1 29. (new) A method of compressing digital images as in claim 17, wherein each of said
2 identified objects is a species object of substituted said generic objects.

1 30. (new) A method of restoring a compressed image as in claim 18, wherein each of said
2 corresponding objects is a species object of an identified one of said generic objects.

1 31. (new) A computer program product as in claim 19, wherein each said at least one
2 object is a species object of its associated said generic object.

1 32. (new) A computer program product as in claim 25, wherein each said at least one
2 object is a species object of its associated said generic object.